WE CLAIM:

A polyester powder coating composition having as the essential elements:

from 85 to 96 wt% of a polyester resin formed by reacting an aliphatic glycol and one or more dicarboxylic acids, wherein the aliphatic glycol is 5 to 90% on a molar basis 1,3-propanediol;

- b) from A to 15 wt% of a triglycidyl isocyanurate crosslinking agent; and
- c) optionally conventional catalysts, auxiliary agents, and additives.
- The powder coating composition of Claim 1 wherein the 2. 11° aliphatic glycol is selected from the group consisting of 1,3-butylene glycol λ 1,4-butylene glycol, ethylene glycol, propylene glycol, 2-methyl-1,3-propanediol, 1,6-hexanediol, and neopentyl glycol.
 - The powder coating composition of Claim 2 wherein the aliphatic glycol is neopentyl glycol.
 - The powder coating composition of Claim 2 further comprising minor amounts of branching agents selected from the group consisting of trimethylolpropane, trimethylolethane, and pentaerythritol.

The powder coating composition of Claim 1 wherein the polyester resin comprises:

neopentyl glycol substituted with 15 to 50% on a molar basis 1,3-propanediol; and

- b) one or more dicarboxylic acids.
- The powder coating composition of Claim 1 wherein the dicarboxyl\c acids are selected from the group consisting of saturated, unsaturated, aliphatic, or aromatic dicarboxylic adids.
- The powder δ_{pating} composition of Claim 6 wherein the dicarboxylic acids are selected from the group consisting

of phthalic, isophthalic, terephthalic, naphthalenedicarboxylic, sebacic, maleic, fumaric, succinic, adipic, azelaic, malonic or mixtures thereof.

- 8. The powder coating composition of Claim 7 wherein the dicarboxylic acids are selected from isophthalic and terephthalic, separately or a mixture thereof.
- 9. The powder coating composition of Claim 8 wherein terephthalic and isophthalic acid are used in a molar ratio of terephthalic to isophthalic of about 100/0 to 0/100.
- 10. The powder coating composition of Claim 9 wherein the molar ratio of terephthalic to isophthalic acid is about 80/20.
- 11. The powder coating composition of Claim 1 wherein 5-90 % molar of the aliphatic glycol is 1,3-propanediol.
- 12. The powder coating composition of Claim 1 further comprising the optional addition of conventional auxiliary agents and additives.
- 13. The powder coating composition of Claim 1 further comprising the ratio of epoxy to carboxyl is in the range of $0.5\lambda 1$ to 6/1.
- 14. A polyester powder coating composition having as the essential elements:
 - a) a polyester resin characterized by a acid value of 10 to 100 mg KOH/g formed by reacting neopentyl glycol with a mixture of terephthalic acid and isophthalic acid, wherein the ratio of terephthalic to isophthalic is in the molar range of 100/0 to 0/100, and wherein 15-50% on a molar basis of the neopentyl glycol is substituted with 1,3-propanediol; and
 - b) a triglycidyl isockanurate.
- 15. Any coated product made using the powder coating of Claim 1.

TH1802.DOC

23